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PHOTOGRAPHIC INTERPRETATION REPORT



GLASS LAMP MISSION G-926
15 NOVEMBER 1966

Declass Review By NIMA/DOD

NPIC/R-377/66
NOVEMBER 1966

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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GL MISSION G-926 15 NOV 66

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-926, 15 NOV 66. THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE COMOR TARGET NUMBER.

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS-- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), SD (SEMITDARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), O (OBLIQUITY), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS SIGNIFIED BY ST (STEREO), NS (NONSTEREO), OR PS (PARTIAL STEREO).

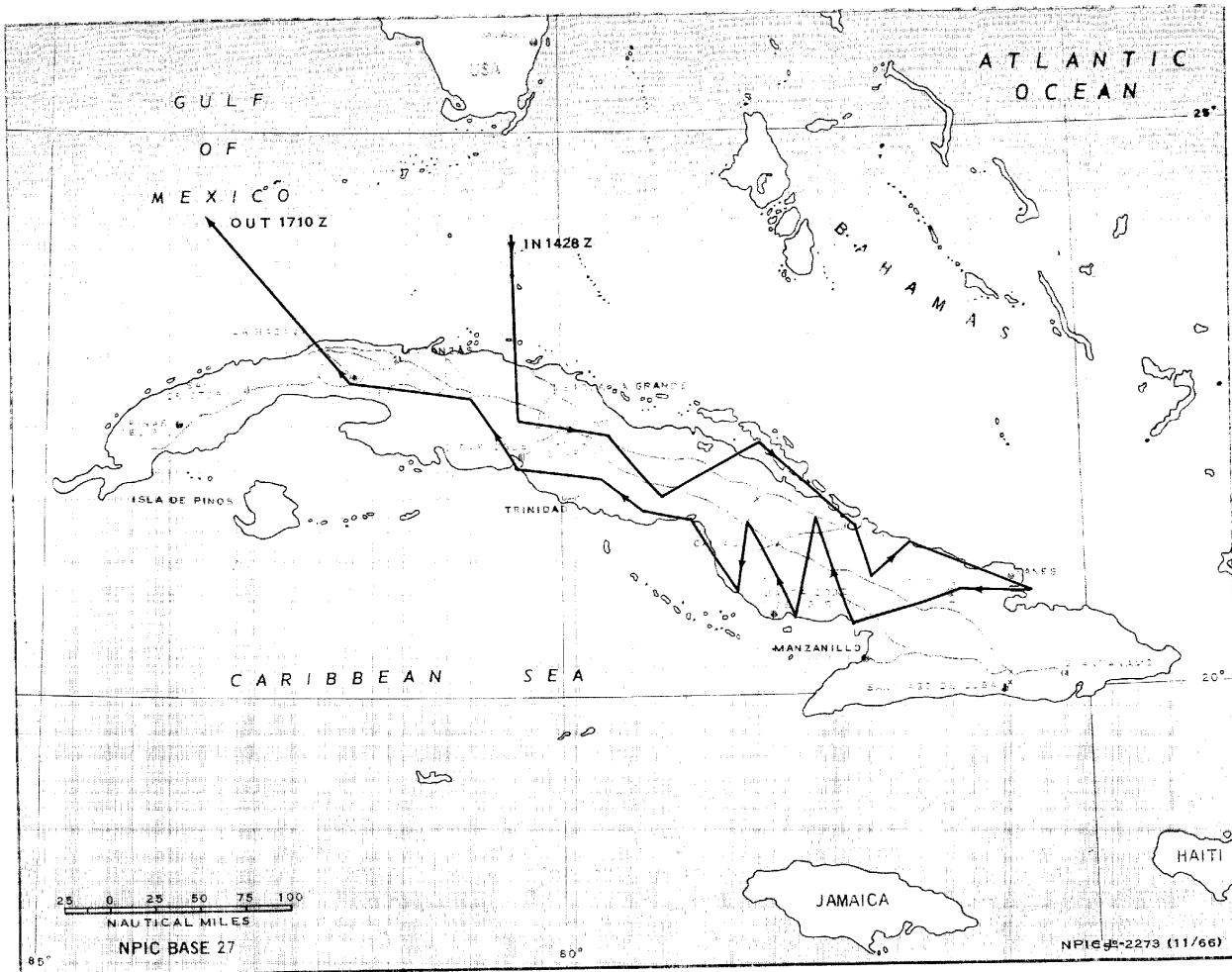
AAA DEFENSES ARE DIVIDED INTO THREE BASIC CATEGORIES -- LIGHT (ZPU-2, ZPU-4, AND 37MM), MEDIUM (57MM AND 85MM), AND HEAVY (100MM AND LARGER). WHERE SUCH A CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER OF GUNS INDICATED (EXAMPLE 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED).

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GL MISSION G-926 15 NOV 66

MISSILES

25X1A

GUARA SAM SITE A29-2

CU 2248N 08213W

OB --- 2 EMPLACED LAUNCHERS AND 2 MISSILE TRANSPORTERS OBSERVED IN CLOUD-FREE AREAS.

25X1D

HOLGUIN SAM SITE B27-2

CU 2052N 07627W

OB --- 6 EMPLACED LAUNCHERS (3 WITH MISSILES), 9 MISSILE TRANSPORTERS (6 WITH MISSILES), A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, 2 VAN TRUCKS, AND 1 OTHER VAN TRAILER IN CENTRAL GUIDANCE AREA, 1 AT-5 TRACKED PRIME MOVER, 2 ZIL 157-V TRUCK TRACTORS, 1 CARGO TRUCK, AND 5 OTHER VAN TRAILERS.

ACTIVITY --- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1D

HOLGUIN AIRFIELD SAM SITE

CU 2046N 07619W

OB --- 6 EMPLACED LAUNCHERS (2 WITH MISSILES), 6 MISSILE TRANSPORTERS WITH EXPOSED MISSILES, A FAN SONG RADAR WITH 1 ASSOCIATED VAN TRAILER, AND 3 OTHER VAN TRAILERS.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1D

LA SALUD SAM SITE A04-2

CU 2253N 08224W

OB --- 6 EMPLACED LAUNCHERS (1 WITH MISSILE), 8 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, AND 4 OTHER VEHICLES.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1D

SANTA ISABEL DE LAS LAJAS SAM SITE A35-2 CU 2228N 08018W

SITE APPEARS OCCUPIED.
OBLIQUITY LIMITS INTERPRETATION.

GL MISSION G-926 15 NOV 66

25X1D



25X1A

CONSTANCIA SAM SITE A10-2

CU 2214N 08030W

SITE APPEARS OCCUPIED.
OBLIQUITY AND HAZE LIMIT INTERPRETATION.

25X1D



SAN JOSE DE LAS LAJAS CRUISE-MSL STORAGE CU 2255N 08210W

OB -- 9 PROBABLE CRUISE-MISSILE TRANSPORTER-LAUNCHERS,
41 CRUISE-MISSILE CRATES, AND 35 VEHICLES OBSERVED IN
CLOUD-FREE AREAS.
NO APPARENT CHANGE IN FACILITIES.

25X1D



AIR FACILITIES

CAMILO CIENFUEGOS AIRFIELD

CU 2229N 07956W

OB -- 10 FAGOT/FRESCO AND 2 SMALL STRAIGHT-WING
OBSERVED IN CLOUD-FREE AREAS.

25X1D



CAMAGUEY INTERNATIONAL AIRFIELD

CU 2125N 07750W

OB -- 4 FAGOT/FRESCO, 1 C-54, 1 C-46, 1 C-47, AND 13
HOUND.

25X1D

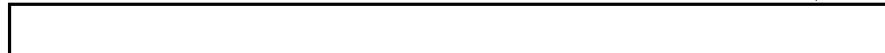


HOLGUIN AIRFIELD

CU 2047N 07618W

OB -- 6 FAGOT/FRESCO AND 2 CRATES OBSERVED IN
CLOUD-FREE AREAS.

25X1D



GL MISSION G-926 15 NOV 66

25X1A

SAN ANTONIO DE LOS BANOS AIRFIELD

CU 2252N 08230W

OB -- 16 FISHBED, 8 FARMER, AND 5 FAGOT/FRESCO.

25X1D

JOSE MARTI INTERNATIONAL AIRFIELD

CU 2259N 08224W

OB -- 3 BRITANNIA, 1 COOT, 1 CUB, 4 COKE, 7 CRATE, 1
C-47, 3 MEDIUM STRAIGHT-WING, AND 4 SMALL
STRAIGHT-WING.

25X1D

JAIME GONZALES AIRFIELD

CU 2209N 08024W

OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

25X1D

CATIBARIEN AIRFIELD

CU 2230N 07928W

OB -- NONE OBSERVED.

25X1D

NAVAL ACTIVITY/PORTS

CIENFUEGOS NAVAL BASE

CU 2208N 08027W

OB -- 1 PROBABLE YP OBSERVED IN CLOUD-FREE AREAS.

25X1D

NUEVITAS PORT

CU 2132N 07715W

VESSELS -- 2 LARGE FREIGHTERS AND 2 LARGE TANKERS.

25X1D

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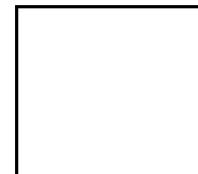
25X1A

CAIBARIEN PORT

CU 2231N 07928W

VESSELS -- NONE OBSERVED.

25X1D

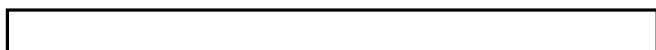


CASILDA PORT

CU 2145N 07959W

VESSELS -- NONE OBSERVED.

25X1D

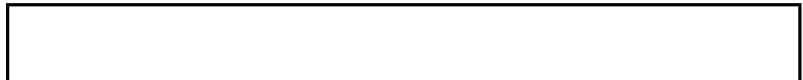


MATANZAS PORT

CU 2302N 08134W

VESSELS -- 1 LARGE FREIGHTER AND 1 LARGE PROBABLE TANKER.

25X1D



LA HABANA PORT FACILITIES

CU 2307N 08220W

OB -- NONE OBSERVED.

OTHER VESSELS -- 6 LARGE FREIGHTERS, 5 COASTAL FREIGHTERS, AND 1 FLOATING DRYDOCK.
HEAVY CLOUDS LIMIT INTERPRETATION.

25X1D



MILITARY ACTIVITY

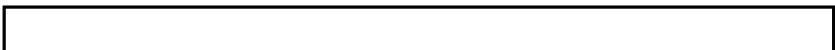
HOLGUIN MILITARY CAMP

CU 2053N 07613W

OB (MAIN CAMP) -- 13 PROBABLE TANKS/SP GUNS AND 31 PROBABLE CARGO TRUCKS.

OB (CAMP 2.2 NM SE) -- AT LEAST 24 FA PIECES, 18 CARGO TRUCKS, AND 16 OTHER PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1D



GL MISSION G-926 15 NOV 66

25X1A

HOLGUIN MILITARY CAMP NW

CU 2057N 07616W

OB -- 13 FA/AAA PIECES AND 16 CARGO TRUCKS,
NO APPARENT CHANGE IN FACILITIES.

25X1D

REMEDIOS MILITARY AREA

CU 2227N 07935W

OB -- 15 TANKS/SP GUNS, 10 FA PIECES, 134 CARGO TRUCKS,
AND 35 OTHER VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1D

SANTIAGO DE LAS VEGAS MILITARY CAMP

CU 2258N 08220W

OB -- 6 PROBABLE TANKS/SP GUNS, 12 PROBABLE BTR 60-P,
AND AT LEAST 70 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

25X1D

ANTON RECIO MILITARY INSTALLATION

CU 2211N 08036W

OB -- 3 VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1D

CAMAGUEY MILITARY CAMP

CU 2126N 07753W

OB -- NONE OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT CHANGE IN FACILITIES.

25X1D

CEIBA MOCHA MILITARY AREA

CU 2257N 08142W

OB -- 1 CARGO TRUCK AND 21 PROBABLE VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1D

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25X1A

JURAGUA MILITARY ACTIVITY

CU 2209N 08035W

OB --- 9 FAPIECES.
NO APPARENT CHANGE IN FACILITIES.

25X1D

MANAGUA MILITARY CAMP

CU 2258N 08217W

OB --- 2 TANKS/SP. GUNS OBSERVED ON DRIVER-TRAINING
COURSE.
HEAVY CLOUDS LIMIT INTERPRETATION.

25X1D

NAZARENO MILITARY CAMP

CU 2257N 08213W

OB --- 11 TANKS/SP. GUNS, 2 PROBABLE TANKS/SP. GUNS, 23
BTR 60-P, 22 CARGO TRUCKS, AND 8 OTHER VEHICLES/PIECES
OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1D

SANTA CLARA MILITARY CAMP CUBANACAN

CU 2224N 07952W

OB --- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

25X1D

LAS MERCEDES VEHICLE PARK

CU 2224N 08001W

OB --- AT LEAST 25 CARGO TRUCKS AND 53 OTHER
VEHICLES/PIECES OF EQUIPMENT OBSERVED IN CLOUD-FREE
AREAS.
NO APPARENT CHANGE IN FACILITIES.

25X1D

LA CHARCA MILITARY ACTIVITY

CU 2246N 08036W

BUILDINGS AND ARCH-ROOFED BUNKERS REMAIN UNDER
CONSTRUCTION.

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OB (MAIN CAMP) -- 6 FA PIECES, 44 CARGO TRUCKS, AND AT LEAST 18 OTHER VEHICLES/PIECES OF EQUIPMENT.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
HEAVY CLOUDS AND HAZE LIMIT INTERPRETATION.

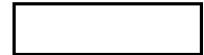
25X1D



25X1A

CIENFUEGOS LANDING BEACH

CU 2202N 08036W



NO NEW MILITARY ACTIVITY OBSERVED.

25X1D



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-STATUS OF OTHER TARGETS-

25X1A

THE FOLLOWING TARGETS SHOW NO APPARENT CHANGE SINCE LAST COVERAGE--

SANTA CLARA EW/GCI RADAR SITE	2229N 07956W
OFELIA MILITARY CAMP	2006N 07530W
SANTA CLARA ARTILLERY TRAINING AREA	2222N 08000W
MATANZAS LANDING BEACH	2301N 08126W
NICARO LANDING BEACH	2042N 07533W
GANUZA LANDING BEACH	2305N 08030W
CAYO DE SABINAL LANDING BEACH	2144N 07728W

25X1A

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

ALQUIZAR SAM SITE A30-2	2249N 08238W
CAMPO FLORIDO SAM SITE A07-2	2309N 08202W
RANCHUELO SAM SITE A33-2	2223N 08010W
SANTIAGO DE CUBA SAM SITE A23-2	1959N 07550W
SANTIAGO DE CUBA SAM ASSEMBLY AREA	2004N 07553W
SANTIAGO SAM TRAINING AREA	1958N 07551W
TORRENS SAM ASSEMBLY AREA	2257N 08227W
SANTIAGO DE LAS VEGAS SAM ASSEMBLY AREA	2257N 08221W
GUANABO CRUISE-MISSILE SITE	2309N 08203W
ANTONIO MACEO AIRFIELD	1958N 07550W
CORONEL PASCUAL AIRFIELD	2307N 08117W
CAMPO LIBERTAD AIRFIELD	2305N 08226W
SANTIAGO DE CUBA NAVAL BASE AND PORT	2001N 07550W
CARDENAS PORT	2302N 08111W
PUNTA BALLENAUTOS MARINA	2305N 08230W
SANTIAGO DE CUBA EW/GCI RADAR SITE	1959N 07551W
SANTIAGO DE CUBA EW/GCI RADAR SITE 2	2005N 07551W
LA SOCAPA LOW SIEVE RADAR SITE	1958N 07552W
MATANZAS LOW SIEVE RADAR SITE	2306N 08133W
DOS CAMINOS MILITARY CAMP	2014N 07547W
RANCHO BOYEROS MIL TRAINING AREA A CAMP	2300N 08218W
LA HABANA BARRACKS COJIMAR	2309N 08215W
SANTIAGO DE LAS VEGAS MIL CAMP SOUTH	2257N 08223W
CANTEL MILITARY CAMP	2302N 08119W
LA QUINTA MILITARY CAMP	2002N 07551W
SANTA CLARA MILITARY CAMP SOUTH	2222N 07958W
SANTIAGO DE CUBA MILITARY CAMP NW	2003N 07554W
SANTIAGO DE CUBA MILITARY CAMP	2003N 07553W
CIENFUEGOS MILITARY ACTIVITY	2209N 08027W
PENINSULA DE HICACOS LANDING BEACH	2311N 08130W

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25X1C

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NAME

Chuan-chou Naval Base

COUNTRY	GEO COORDINATES	WAC	BE NO	NPIC NO	COMOR NO
China	24-53N 118-40E	0498		15-D	

25X1C

REFERENCES

(S) [REDACTED]
 USATC, Series 200, Sheet 0498-20HL, 3d ed, Oct 64 (S)

Chuan-chou is also known as Chin-chiang.

4.3 nm east of Chuan-chou.

Minor naval base consists of 1 floating offshore wharf, 1 marine railway, 1 possible cave adit, and approximately 20 support buildings.

[REDACTED]

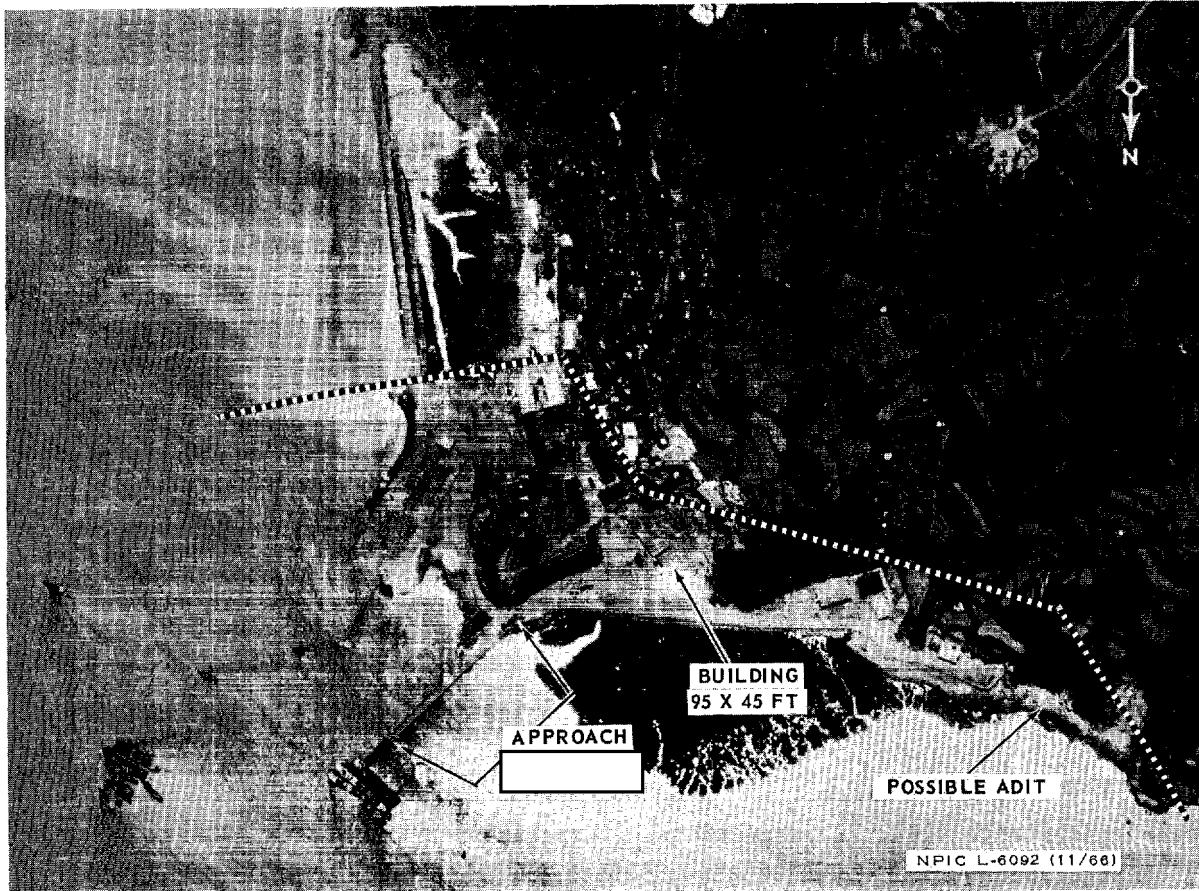


FIGURE 1. CHUAN-CHOU NAVAL BASE, CHINA, [REDACTED]

25X1D

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25X1C

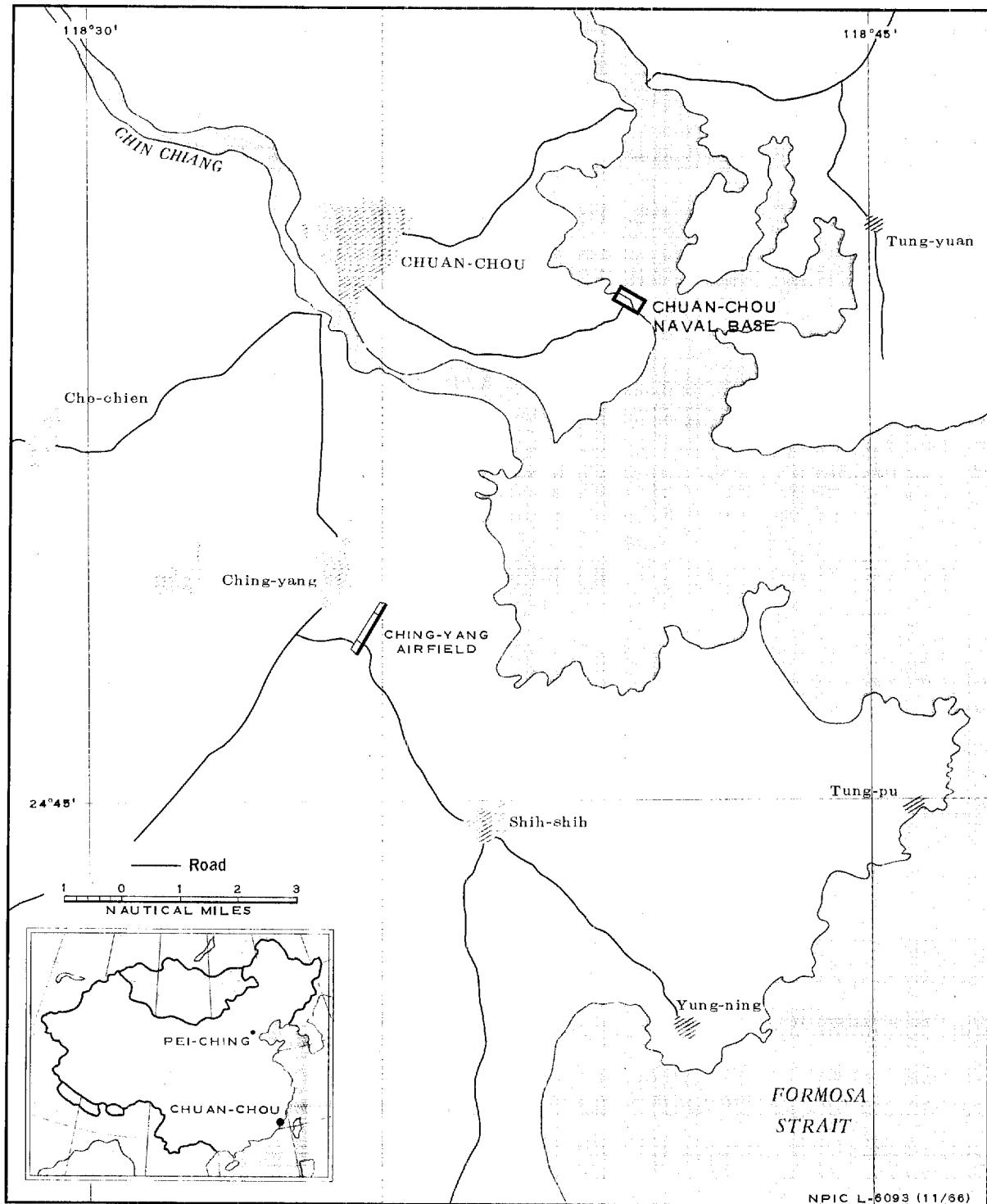


FIGURE 2. LOCATION OF CHUAN-CHOU NAVAL BASE, CHINA

25X1C

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25X1C

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NAME

Shui-tou Naval Base

COUNTRY	GEO COORDINATES	WAC	BE NO	NPIC NO	COMOR NO
China	24°30'N 118-05E	0498		1-F	

REFERENCES [REDACTED] (S)
 [REDACTED]; USATC, Series 200, Sheet 0498-25HL, 2d ed,
 Mar 63 (S) [REDACTED]

0.3 nm north of Shui-tou and 2 nm north of Hsia-men.

Minor naval facility consists of 2 T-head piers on an L-shaped approach and 10 support buildings.

A possibly related area 0.2 nm SW contains 1 finger pier and at least 10 support buildings.

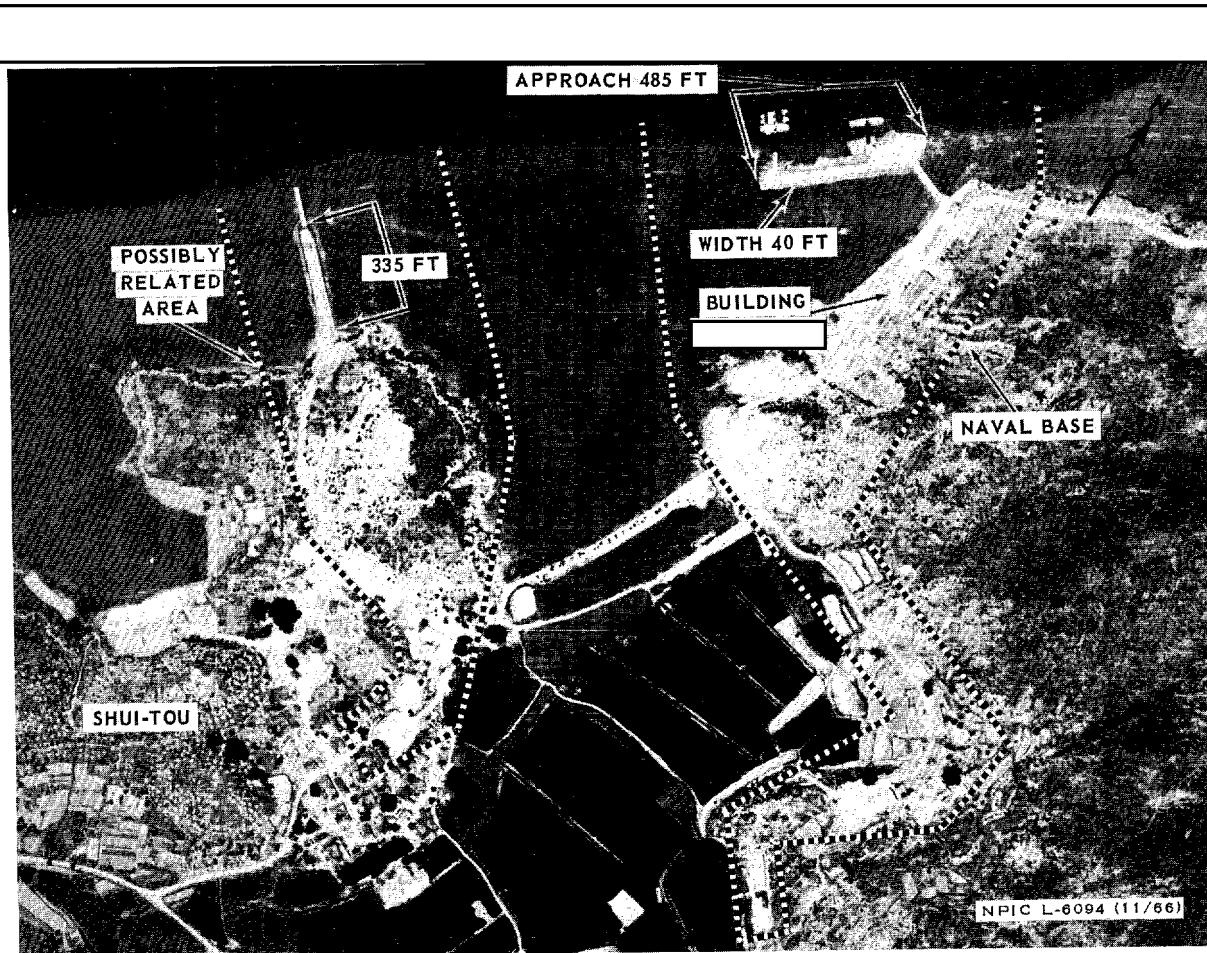


FIGURE 1. SHUI-TOU NAVAL BASE, CHINA, [REDACTED]

25X1D

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25X1C

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25X1C

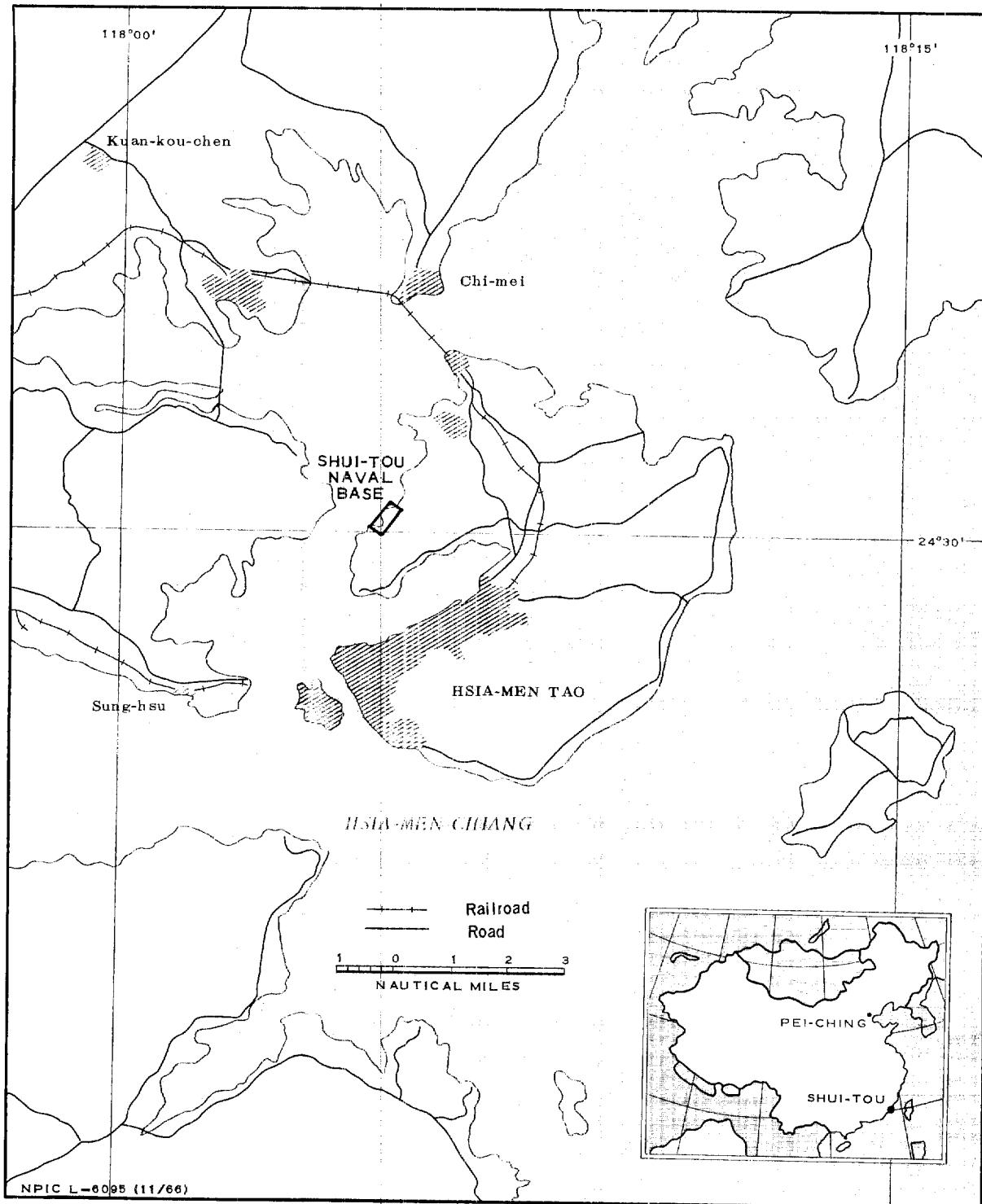


FIGURE 2. LOCATION OF SHUI-TOU NAVAL BASE, CHINA

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25X1C

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NAME

Hsia-men Naval Installation

COUNTRY	GEO COORDINATES	WAC	BE NO	NPIC NO	COMOR NO
China	24-26N 118-04E		0498		
REFERENCES		(S/ [REDACTED] ; USATC, Series 200, Sheet 0498-25HL, 2d ed, Mar 63 (S) [REDACTED])			

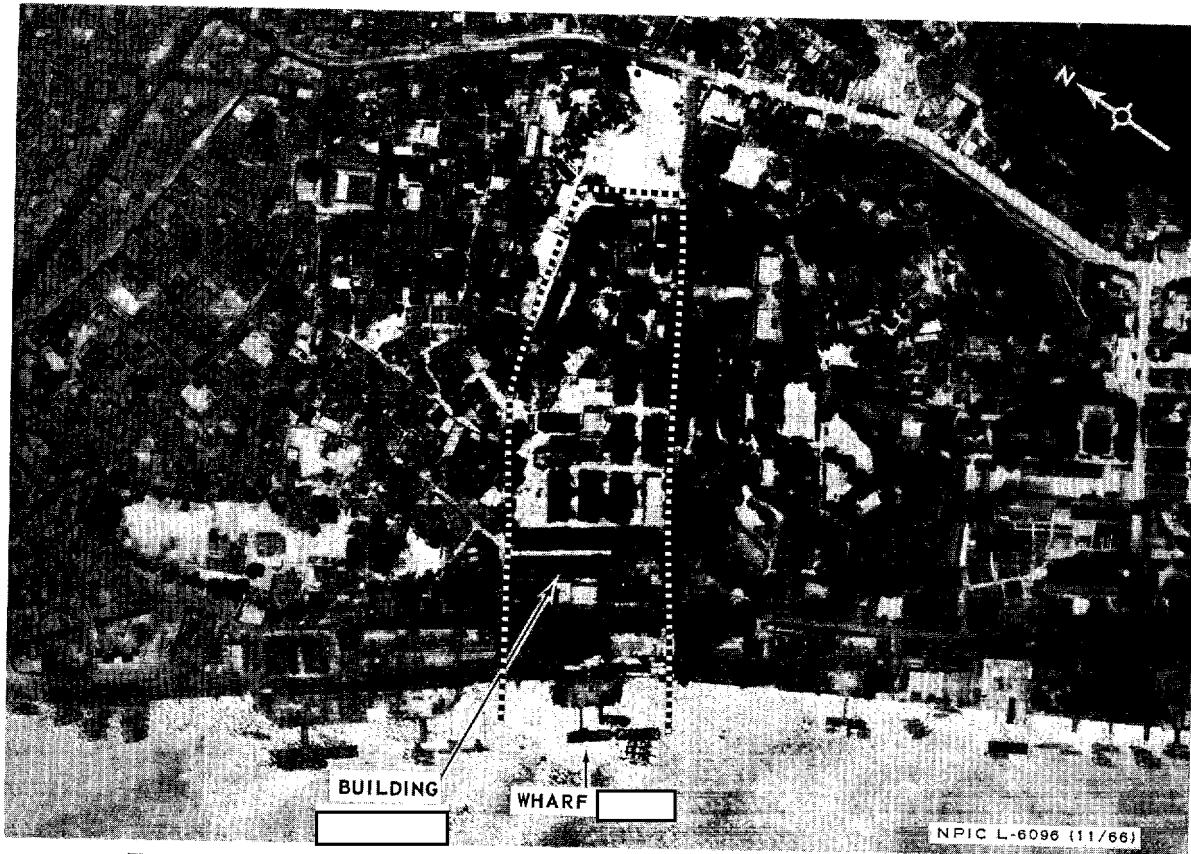
Hsia-men is also known as Amoy.

In the southern section of Hsia-men.

Rail-served area consists of 1 floating offshore wharf, 2 administration buildings, 8 barracks, 3 large storage buildings, and approximately 15 support buildings.

25X1

25X1C



25X1D

25X1D

FIGURE 1. HSIA-MEN NAVAL INSTALLATION, CHINA, [REDACTED]

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25X1D
25X1C
25X1

25X1C

25X1C

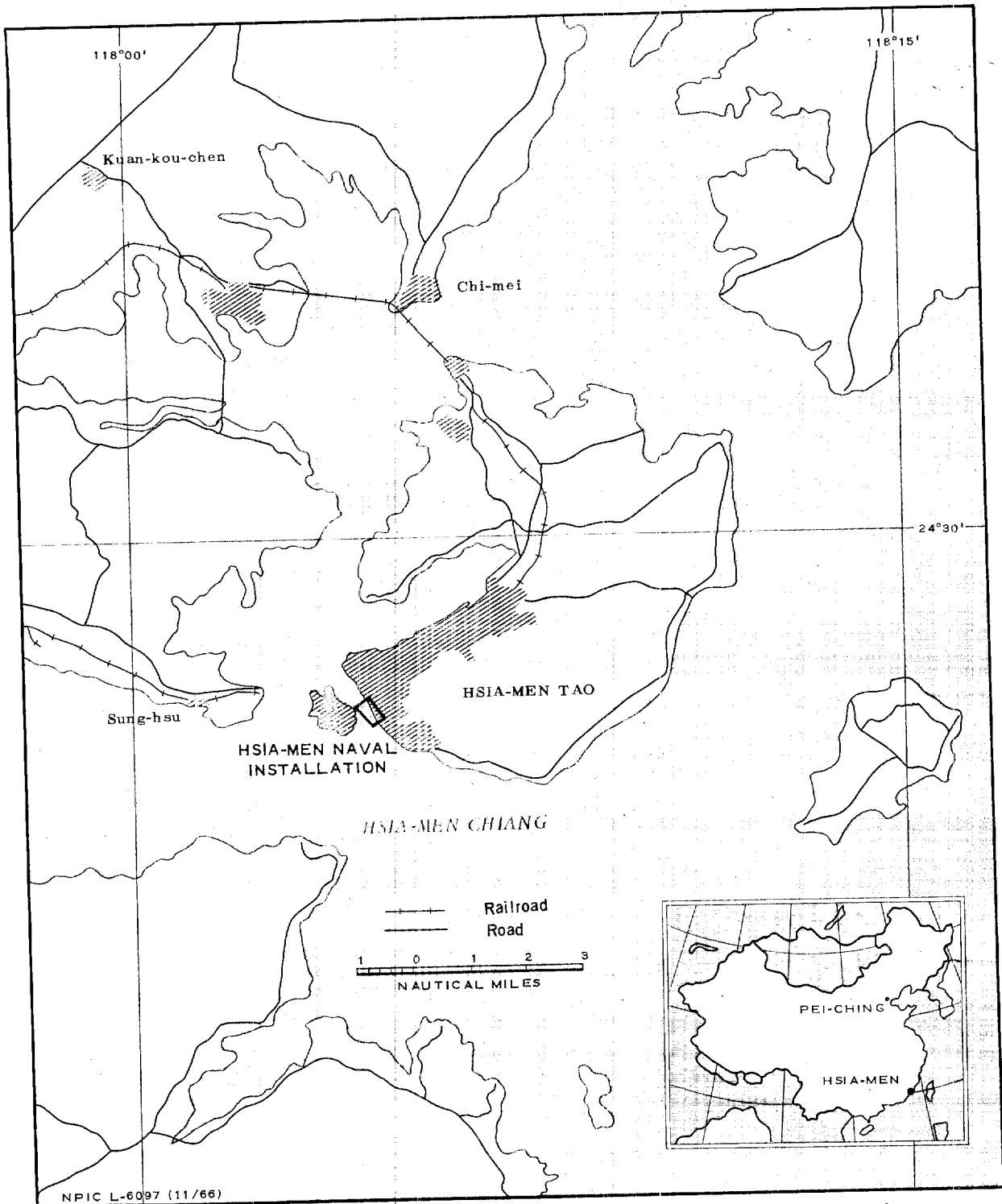


FIGURE 2. LOCATION OF HSIA-MEN NAVAL INSTALLATION, CHINA

25X1C